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NEWS 6 Apr 22 Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
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NEWS 8 Apr 22 Federal Research in Progress (FEDRIP) now available
NEWS 9 Jun 03 New e-mail delivery for search results now available
NEWS 10 Jun 10 MEDLINE Reload
NEWS 11 Jun 10 PCTFULL has been reloaded
NEWS 12 Jul 02 FOREGE no longer contains STANDARDS file segment
NEWS 13 Jul 22 USAN to be reloaded July 28, 2002;
                 saved answer sets no longer valid
                Enhanced polymer searching in REGISTRY
NEWS 14 Jul 29
NEWS 15 Jul 30 NETFIRST to be removed from STN
NEWS 16 Aug 08 CANCERLIT reload
NEWS 17 Aug 08 PHARMAMarketLetter(PHARMAML) - new on STN
NEWS 18 Aug 08 NTIS has been reloaded and enhanced
NEWS 19 Aug 09 JAPIO to be reloaded August 25, 2002
NEWS 20 Aug 19 Aquatic Toxicity Information Retrieval (AQUIRE)
                 now available on STN
                IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS 21 Aug 19
NEWS 22 Aug 19 The MEDLINE file segment of TOXCENTER has been reloaded
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              CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP),
              AND CURRENT DISCOVER FILE IS DATED 05 FEBRUARY 2002
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G2 C, H, X

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100.0% PROCESSED 20061 ITERATIONS SEARCH TIME: 00.00.03

10 ANSWERS

L2 10 SEA SSS FUL L1

=> d scan

10059456 Page 4 08/21/2002

10 ANSWERS REGISTRY COPYRIGHT 2002 ACS
1H-Imidazol-2-amine, N-[2-bromo-6-chloro-4-(1-methylethyl)phenyl]-4,5dihydro-, monohydrobromide (9CI)
C12 H15 Br C1 N3 . Br H

$$\begin{array}{c} \overset{H}{\underset{N}{\bigvee}} & \text{NH} \\ & \overset{C1}{\underset{Br}{\bigvee}} & \\ & & \\ \end{array}$$

• HBr

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

10 ANSWERS REGISTRY COPYRIGHT 2002 ACS 2-Imidazoline, 2-cumidine- (7CI, 8CI) C12 H17 N3 CCM

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L2 10 ANSVERS REGISTRY COPYRIGHT 2002 ACS
IN 1H-Imidazol-2-amine, 4,5-dihydro-N-hydroxy-N-[3-(1-methylethyl)phenyl]-,
monohydrochloride (9CI)
MF C12 H17 N3 O . C1 H

• HCl

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L2 10 ANSWERS REGISTRY COPYRIGHT 2002 ACS
1N 1H-Imidazol-2-amine, N-[2-bromo-6-chloro-4-(1-methylethyl)phenyl]-4,5dihydro- (9CI)
MF C12 H15 Br C1 N3
CI COM

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

10059456 Page 5 08/21/2002

10 ANSWERS REGISTRY COPYRIGHT 2002 ACS Butanedioic acid, compd. with N-(4,5-dihydro-1H-imidazol-2-yl)-7-(1-methylethyl)-1H-indol-5-amine (1:1) (9CI) C14 H18 N4 . C4 H6 O4

CM 1

$$\bigcap_{N}^{H} NH \longrightarrow \bigcap_{i-Pr} NH$$

CM 2

но2С- СН2-СН2-СО2Н

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

10 ANSWERS REGISTRY COPYRIGHT 2002 ACS
1H-Imidazol-2-amine, N-[2,6-bis(1-methylethyl)phenyl]-4,5-dihydro- (9CI)
C15 H23 N3

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L2 10 ANSWERS REGISTRY COPYRIGHT 2002 ACS IN 2-Imidazoline, 2-cumidino-, monohydrochloride (8CI) MF C12 H17 N3 . C1 H

• HCl

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L2 10 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN 1H-Indol-5-amine, N-(4,5-dihydro-1H-imidazol-2-y1)-7-(1-methylethyl)(9CI)
FC C14 H18 N4
CI COM

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

10059456 Page 6 08/21/2002

L2 10 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN IH-Imidazol-2-amine, 4,5-dihydro-N-[2-methyl-6-(1-methylethyl)phenyl](9CI)
MF C13 H19 N3

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L2 10 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN Benzenamine, N-2-imidazolidinylidene-2,6-bis(1-methylethyl)-,
monohydrochloride (9CI)
MF C15 H23 N3 . C1 H

• HCl

ALL ANSWERS HAVE BEEN SCANNED

10059456 Page 7 08/21/2002

=> fil caplus
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FULL ESTIMATED COST

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=> s 12 L3 12 L2

=> d ibib abs hitstr 1-12

10059456 Page 8 08/21/2002

L3 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:
DOCUMENT NUMBER:
116:320707
Three-Dimensional common-Feature hypotheses for octopamine agonist 2-(arylimino) imidazolidines
Hirashima, Akinori; Morinoto, Nasako; Kuwano, Eiichi;
Taniquchi, Eiji: Eto, Morifuse
Department of Applied Genetics and Pest Management,
Kyushu University: Faculty of Agriculture, Graduate School, Fukuoka, Higashi-ku, 812-6581, Japan
Bioorganic & Medicinal Chemistry (2001), Volume Date 2002, 10(1), 117-123
COEMS: BMCEEF; ISSN: 0968-0896
PUBLISHER:
DOCUMENT TYPE:
JOURNALL STANDARD CONTROLL STANDARD

JUNGE: Journal
JUNGE: English
Three-dimensional pharmacophore hypotheses were built from a set of 10
octopamine (OA) agonist 2-(Arylimino)imidazolidines (AITs),
2-(Arylimino) thiazolidines (AITs) and 2-(Arylimino)axzolidines (AIOs).
OA agonist activities were detd. using the ademylate cyclase assay in
American cockroaches (P. americana). Among the 10 common-featured models
generated by program Catalyst/HipHop, a hypothesis including a ring arom.
(RA), a pos. ionizable (PI) and three hydrophobic alliph. (HpAI) features
was considered to be important in evaluating the OA-agonist activity.
Active OA agonist 2,6-Et2 AII mapped well onto all the RA, PI and HpAI
features of the hypothesis. On the other hand, less active compds. were
shown to be difficult to achieve the energetically favorable conformation
which is found in the active mols. in order to fit the 3-D common-feature
pharmacophore models. Taken together, 2,6-Et2-Ph and foramidine
structures are important as OA agonists. The present studies on OA
agonists demonstrate that a RA, a PI and three HpAI sites located on the
mol. seem to be essential for OA-agonist activity.

63346-74-7 359658-33-0
RL: BSU (Biological study, unclassified); PRP (Properties); BIOL
(Biological study)
(GSAR for octopamine agonist (arylimino)imidazolidines)
63346-74-7 CAPLUS
IH-Imidazol-2-amine, N-[2,6-bis(1-methylethyl)phenyl]-4,5-dihydro- (9CI)
(CA INDEX NAME)

JJ97008-JJ-U CAFUS 1H-Imidazol-2-amine, 4,5-dihydro-N-[2-methyl-6-(1-methylethyl)phenyl]-(SCI) (CA INDEX NAME)

L3 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:
DOCUMENT NUMBER:
135:222824

Identification of novel inhibitors of calling and in vitro [14C]acetate incorporation by pheromone glands of Plodia interpunctella

AUTHOR(S): Hirashima, Akinori, Eiraku, Tomohiko, Watanabe, Yasuyuki; Kuwano, Eirahi, Taniguchi, Eiji; Eto, Morifusa

CORPORATE SOURCE: Department of Applied Genetics and Pest Management, Faculty of Agriculture, Graduate School, Kyushu University, Fukuoka, 812-8581, Japan
Pest Management Science (2001), 57(8), 713-720

CODEN: PMSCFC; ISSN: 1526-498X
John Wiley & Sons Ltd.

JOURNALL

JOURNAL

DOCUMENT TYPE:

CODEN: PMSCRC; ISSN: 1526-499X
John Wiley & Sons Ltd.

Some octopamine agonists were found to suppress in vitro biosynthesis of the calling pheromone of the Indian meal moth, Plodia interpunctella. Isolated pheromone-gland preprs. incorporated sodium [14C]acetate at a linear rate for 3h when incubated with the pheromone biosynthesis activating heuropeptide (PRAN). This incorporation was dependent on the dose of PRAN (up to 0.5 min.M). Thin-layer chromatog. of a pheromone-gland ext. revealed quant incorporation of radioactivity into a product exhibiting the same mobility as (Z. E.) -9, 12-teradecadienyl acetate, the main component of the calling pheromone of P. interpunctella. Twenty-seven octopamine agonists were initially screened using a calling hehavior bioassay of female P interpunctella. Four derivs. with activity in the nanomolar range were identified which were, in order of decreasing pheromonostatic activity: 2-(2,6-diethylphenylimino) thiszolidine > 2-(2,6-diethylphenylimino) thiszolidine > 2-(2,6-diethylphenylimino) bitazolidine > 2-(2,6-diethylphenylimino) bitazolidine. These compds. also showed in vitro inhibitory activity in intracellular de novo pheromone biosynthesis. The results of the present study indicate that these derivs. could provide useful information in the characterization and differentiation of octopaminergic receptor types and subtypes. LANGUAGE:

characterization and differentiation of occopaministy of the subtypes.

63346-74-7P 359668-33-0P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (prepn. and pheromonostatic activity of)

63346-74-7 CAPLUS
HI-ImidzaO-2-amine, N-[2,6-bis(1-methylethyl)phenyl]-4,5-dihydro- (9CI) (CA INDEX NAME)

359668-33-0 CAPLUS
1H:Tmidazol-Z-amine, 4,5-dihydro-N-[2-methyl-6-(1-methylethyl)phenyl](9C1) (CA INDEX NAME)

Examiner Anderson 703-605-1157

ANSWER 1 OF 12 CAPLUS COPYRIGHT 2002 ACS (Continued)

REFERENCE COUNT:

THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT 17

ANSWER 2 OF 12 CAPLUS COPYRIGHT 2002 ACS (Continued)

REFERENCE COUNT:

THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT 41

10059456 Page 9 08/21/2002

L3 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 2001;37784 CAPLUS DOCUMENT NUMBER: 134:231513 Synthesis, structure, a

134:231513
Synthesis, structure, and binding of some
2-imidazolines to rat brain alfa-l and
alfa-2-adrenergic receptors
Saczewski, F.; Kobierska, E.; Debowski, T.;
Charakchiewa-Minol, S.; Mokrosz, M.; Gdaniec, M.; AUTHOR (S):

Nowak, E.
Department of Chemical Technology of Drug and Organic Chemistry, Medical University of Gdansk, Pol. Archiv der Pharmazie (Weinheim, Germany) (2000), 333(12), 425-430 (2008: ARPMAS) ISSN: 0365-6233 Wiley-VCH Verlag GmbH Journal English CORPORATE SOURCE:

COLEN: ARPMAS; ISSN: 0365-6233

PUBLISHER: Viley-VCH Verlag GmbH
JOURNET TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 134:231513

AB A series of novel 2-{[(2-aminophenyl)imino]imidazolinium salts and
N-benzyl-N-(4,5-dihydro-imidazol-2-yl)-o-methylhydroxylamine hydrochloride
were prepd. and their structure was detd. by IR and NMR spectroscopic data
as well as X-ray anal, of the imidazolinium aride salt of one of the
compds. Binding evaluation for both .alpha.l- and .alpha.2-adrenergic
receptors in rat brain prepns. of these compds. and previously described
ralpha.hydroxy-2-aryliminoimidazolines 11a-d, N-(4,5-dihydroimidazol-2-yl)-1,3-2-oxockhydrobenzimidazoles, Z-amino-N-(4,5-dihydroimidazol-2-yl)-benzimidazoles, and N-(4,5-dihydroimidazol-2-yl)-benzimidazoles, and N-(4,5-dihydroimidazol-2-yl)-benz

330685-57-9
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
(synthesis, structure, and binding of imidazolines to brain .alpha.l-and .alpha.2-adrenepgic receptors)
330685-57-9 CAPUUS
HI-Imidazol-2-amine, 4,5-dihydro-N-hydroxy-N-[3-(1-methylethyl)phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 5 OF 12
ACCESSION NUMBER:
DOCUMENT NUMBER:
132:260198
171TLE:
132:260196
Prediction of distribution coefficients from
Prediction of distribution coefficients from
structure. Comparison of calculated and experimental
data for various drugs
Tantili-Kakoulidou, A. Panderi, I.; Piperaki, S.;
CSIZMAGIA, F., Darvas, F.
Department of Pharmacy, University of Athens, Athens,
157 17, Greece
European Journal of Drug Metabolism and
Pharmacokinetics (1999), 24(3), 205-212
CODEN: EUPD22: ISSN: 0378-7966
Medecine et Hyglene

Pharmacokinetics (1999), 24(3), 260-212
CODEN: EXDPDE/: ISSN: 0378-7966

DOCUMENT TYPE: Medecine et Hygiene
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The efficiency of the program PrologD to predict distribution coeffs. (D)
at any pH and pairing ion concn. has been tested using exptl. logD values
for various drugs measured under std. conditions of buffers and ionic
strength. Clondine deriva., fluoroquinolones and .beta.-blockers were
included as particular pharmacol. classes within the testing data set.
Calons. were performed using the three log? estn. options implemented in
the program. PrologD proved to be very efficient and can be of great
advantage in drug research. Prediction patterns and correlations between
exptl. and calcd. data indicate acceptable results for more than 80% of
the data. In addn., comparable studies using the different options
permitted suggestions for the more suitable logP estn. method in respect
of the particular classes of compds.

IT 63346-74-7
RL EPR (Biological process); BSU (Biological study, unclassified); PRP
(Properties); THU (Therapeutic use); BIOL (Biological study); PROC
(Process); USES (Uses)
(comparison of calcd. and exptl. data for various drugs in prediction
of distribution coeffs. from structure)

RN 63346-74-7 CAPLUS
CN 1H-Imidazol-2-amine, N-[2,6-bis(l-methylethyl)phenyl]-4,5-dihydro- (9CI)

REFERENCE COUNT:

THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 4 OF ACCESSION NUMBER: DOCUMENT NUMBER:

ANSWER 4 OF 12 CAPLUS COPYRIGHT 2002 ACS
SSION NUMBER: 2000:142505 CAPLUS

132:330832
E: three-dimensional molecular field analyses of octopaminergic agonists and antagonists for the locust neuronal octopamine receptor class 3

IOR(5): Hirashima, A.; Nagata, T.; Pan, C.; Kuvano, E.; Taniguchi, E.; Eto, M.
ORATE SOURCE: Graduate School, Division of Bioresource and Bioenvironmental Sciences, Kyushu University, Fukuoka, Japan

AUTHOR(5):

CORPORATE SOURCE:

Japan Journal of Molecular Graphics & Modelling (2000), Volume Date 1999, 17(3/4), 198-206 CODEN: JMGMFI; ISSN: 1093-3263 Elsevier Science Inc. Journal

PUBLISHER: DOCUMENT TYPE: LANGUAGE:

DMENT TYPE: Journal
SUAGE: English
The quant. structure-activity relationship (QSAR) of a set of 70
The quant. structure-activity relationship (QSAR) of a set of 70
cotopaminergic agonists and 20 antagonists against octopamine receptor
class 3 (OAR3) in locust nervous tissue was analyzed by mol. field anal.
(MFA). MFA of these compds. evaluated effectively the energy between a
probe and a mol. model at a series of points defined by a rectangular
grid. Contour surfaces for the mol. fields are presented. These result
provide useful information in the characterization and differentiation octopaminergic receptor types and subtypes.

43346-74-7
RL: BAC (Biological activity of the content of the characterization of the content of the characterization and differentiation and differentiation of the characterization and differentiation and differentiation

63346-74-7
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study) (three-dimensional mol. field analyses of octopaminergic agonists and antagonists for locust neuronal octopamine receptor class 3) 63346-74-7 CAPUS
HI-Imida2012-amine, N-[2,6-bis(1-methylethyl)phenyl]-4,5-dihydro- (9CI) (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT 24

L3 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 1997:669819 CAPLUS DOCUMENT NUMBER: 127:274156

DOCUMENT NUMBER: TITLE: Neurotransmitter-receptors as targets for new

Neurotransmitter: Heteptots as day, an insecticides insecticides Roeder, T.; Boologisches Insitut, Universitat Hamburg, Neurophysiologie, Hamburg, D-20146, Germany New Strategies in Locust Control (1997), 219-223. Editor(s): Krall, S.; Peveling, R.; Ba Diallo, D. Birkhaeuser: Basel, Switz.

CODEN: 65EDA4 AUTHOR (S): CORPORATE SOURCE:

SOURCE:

CODEN: 65EDA4

COMENT TYPE: CONFerence

LANGUAGE: English

AB The locust neuronal octopamine receptor is believed to be an ideal target
for highly specific insecticides. The authors characterized a no. of high
affinity agonists of this receptor subtype. Using structure-activity
relationships, the authors were able to optimize the structure of these
compds. in terms of their affinities. A variety of these compds. show a
high degree of specificity for insect octopamine receptors vs. vertebrate
adrenergic receptors. The high affinity together with the high degree of
specificity makes compds. such as the phenyliminomiadzolidines ideal
starting points for the development of new insecticides.

13346-74-7, NC 20
Ri: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological
study); USES (Uses)
(affinity for locust neuronal octopamine receptor)
RN 63346-74-7 CAPLUS
NH-Inidiazol-2-amine, N-[2,6-bis(1-methylethyl)phenyl]-4,5-dihydro- (9CI)
(CA INDEX NAME)

10059456 Page 10 08/21/2002

L3 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER:
DOCUMENT NUMBER:
1997:594632 CAPLUS
127:262678
Preparation of novel indoles and benzothiazoles for cloned human alpha 2 receptors
Jeon, Yoon T., Gluchowski, Charles
SOURCE:
SOURCE:
SOURCE:
COEN: PIXXO2
Patent

DOCUMENT TYPE: LANGUAGE: Patent LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

72 20000523 JP 1997-531156 19970228 A 199007 US 1997-26316 19970305 A 2000121 US 2000-492505 2000127 A1 20020425 US 2000-5690620 2001017 A1 20020425 US 2000-690620 A1 2000127 US 2000-690620 A1 20001017 T2 20000523 A 19990907 A 20000321 A 20001212 B1 20011016 A1 20020425 us 2002049239 PRIORITY APPLN. INFO.: OTHER SOURCE(S):

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

The title compds. [I-IV; R1-R3 = H, C1-7 alkyl, C2-7 alkenyl, alkynyl; R4-R6 = H, halo, Oh, etc.; R7 = H, NH, C1-7 alkyl, etc.; R8 = H, C1-7 alkyl, C2-7 alkenyl, etc.; R9 = H, Ph, C1-7 alkyl, ctc.; X = C42, O, NH, S1-2 alkyl, ctc.; X = C42, O,

L3 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2002 ACS (Continued)

HO2C-CH2-CH2-CO2H

ANSWER 7 OF 12 CAPLUS COPYRIGHT 2002 ACS (Continued)
useful for lowering intraocular pressure, for treating presbyopia,
migraine, hypertension, alc. withdrawal, drug addiction, rheumatoid
arthritis, ischemic pain, spasticity, diarrhea, masal congestion, urinary
incontinence as well as for use as analgesics, sedatives, anesthetics,
cognition enhancers and ocular vasoconstriction agents, were prepd. Thus,
reaction of 7-brono-5-aminoindole with 2-imidazoline-2-sulfonic acid (ISA)
afforded 461 [R1-R5 = H; R6 = Br; R7-R9 = H; X = N] which showed pEC50

afforded 461 [R1-R5 = H; R6 = Br; R7-R9 = H; X = N] which showed pEC50 of 9,36 at alpha 2 receptor.

18204-73-79 186204-73-89
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified) SPN (Synthetic preparation); THU (Therapeutic use);
BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of novel indoles and benzothiazoles for cloned human alpha 2 receptors)
18204-74-7 CAPLUS
181-Indol-5-amine, N-(4,5-dihydro-1H-imidazol-2-yl)-7-(1-methylethyl)-(9CI) (CA INDEX NAME)

196204-75-8 CAPLUS Butanedioic acid, compd. with N-(4,5-dihydro-lH-imidazol-2-yl)-7-(1-methylethyl)-lH-indol-5-amine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 196204-74-7 CMF C14 H18 N4

CM 2

CRN 110-15-6 CMF C4 H6 O4

ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

ANSWER 8 OF 12 CAPLUS COPYRIGHT 2002 ACS

BESION NUMBER:

UMENT NUMBER:

LE:

CAPLUS

1995:303934 CAPLUS

122:77274

Pharmacology of the octopamine receptor from locust
central nervous tissue (OAR3)

Roeder, Thomas

PORATE SOURCE:

ROE:

ROE:

CODEN: BJECHY, ISSN: 0007-1188

Stockton

JOHNST TYPE:

DOUTHALD TOWNS ACS

LISHER:

CODEN: BJECHY, ISSN: 0007-1188 AUTHOR(S): CORPORATE SOURCE: SOURCE:

PUBLISHER: DOCUMENT TYPE: LANGUAGE:

CODEN: BJPCEN; ISSN: 0007-1188

LISHER: Stockton

MENT TYPE: Journal

JUAGE: English

The present study characterized highly effective agonists from different classes of compds. for the neuronal octopamine receptor (OAR3) of the migratory locust (bousda migratoria L.). Biogenic amines and phenylianionidarolidines (PIIs) were employed for the study of structure-activity relationships. The highest affinity PIIs were predominantly those with the substitutions at the positions 2 and 4 of the phenolic ring (e.g. NC 7, KI = 0.3 nM, NG, KI = 0.81 nM). Substitutions at these positions always had pos. effectives on the affinity of the resp. as these positions always had pos. at these positions always had agonists. Substitutions at the positions one of the phenolic ring, heterocyclic substituents are preferred. Some PIIs had a more than 30 times higher affinity for OARs than for alpha.-adrenoceptors which are the vertebrate homologues of the insect octopamine receptors. The only non-PII with subnanomals affinity was the aminooxazline deriv. AC 6 (XI = 0.92 nM). A variety of substances with known insecticidal activity such as chlordimeform, demethylchlordimeform, amitraz or AC 6 had high affinity for the locust neuronal octopamine receptor.

S346-74-7, NC 20

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PPF (Properties); BIOL (Biological study) (structure-activity relationship of agonists for locust neuronal octopamine receptor)

63346-74-7 CAPLUS

H-Inidazol-2-amine, N-[2,6-bis(1-methylethyl) phenyl]-4,5-dihydro- (9CI) (CA INDEX NAME)

10059456 Page 11 08/21/2002

L3 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 1989:95240 CAPLUS DOCUMENT NUMBER: 110:95240 Preparation of the company of the

110:95240
Preparation of 2-(phenylimino)imidazolidines as .alpha.1-adrenergic agonists .Esser. Franz: Staehle, Helmur Koeppe, Herbert: Speck, Georg Mierau, Joachims Pichler, Ludwigs Lehr, Erich Boehringer Ingelheim K.-G., Fed. Rep. Ger. Offen., 7 pp. CODEN: GWXXEX INVENTOR (S):

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE:

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

ND DATE APPLICATION NO. DATE

1 19881027 DE 1987-3712385 19870411
CASREACT 110:95240; MARPAT 110:95240 KIND DATE PATENT NO. DE 3712385 OTHER SOURCE(S): GI

The title compds. [I, Rl, R2 = F, Cl, Br, iodo; R3 = (substituted) C1-4 alkyl] and pharmaceutically acceptable salts were prepd. as CNS agents and cyto- and cardioprotectants. KSCN in acetone was treated with PhCOCl at 15.degree. and 2-chloro-4-isopropylaniline was added. The mixt. was refluxed 3.25 h to give 70.5% (2-chloro-4-isopropylphenyl)thiourea. The latter was sequentially refluxed with MeI in MeOH, refluxed with HNNCHCHCMENT2 in MeOH, stirred with SN NaOH, and treated with Br in CHCI3 at 0-8.degree. to give 2-(2-chloro-4-isopropylphenylimino)imidazolidine.HB r. The latter at 1 mg/kg in mice increased survival in a hypoxia screen from 401 (controls) to 70%.

118955-15-09

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as CNS agent and cardio- and cytoprotectant)
118955-15-0 CAPLUS

1H-Imidazol-2-amine, N-[2-bromo-6-chloro-4-(1-methylethyl)phenyl]-4,5-dihydro-, monohydrobromide (9CI) (CA INDEX NAME)

L3 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1985:593431 CAPLUS
DOCUMENT NUMBER: 103:193431
TITLE: Phenyliminoimidazolidines. Characterization of a class of potent agonists of octopamine-sensitive adenylate cyclase and their use in understanding the pharmacology of octopamine receptors

AUTHOR(S): Nathanson, James A.
CORPORATE SOURCE: Dep. Neurol., Harvard Med. Sch., Boston, MA, 02114, USA
SOURCE: MOIL Pharmacol. (1985), 28(3), 254-68
CODEN: MOPMA3; ISSN: 0026-895X
JOURNAID AND ASSOCIATION OF A STATE OF A

L3 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2002 ACS (Continued)

HBr

118854-98-1P
RL: SPN (Synthetic preparation), PREP (Preparation)
(prepn. of, as CNS agent, cyto- and cardioprotectant)
118854-98-1 CAPLUS
1H-Imidazol-2-amine, N-(2-bromo-6-chloro-4-(1-methylethyl)phenyl]-4,5dihydro- (9CI) (CA INDEX NAME)

L3 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2002 ACS (Continued)

10059456 Page 12 08/21/2002

L3 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:
DOCUMENT NUMBER:
197:447931 CAPLUS
87:47931
Structure-activity relations and problems related to
the mechanism of action of clonidine
ROUGE Bruno Leclerc, Gerard Wermuth,
Camille-Georges; Miesch, Francois; Schwartz, Jean
Fac. Pharm., Univ. Louis-Pasteur, Strasbourg, Fr.
SOURCE:
DOCUMENT TYPE:
LANGUAGE:
French
GI

DOCUMENT TYPE: LANGUAGE: GI

All 26 clonidine analogs (I) studied showed peripheral alpha.—sympathomimetic activity, with IPS 56 (I) R = 2,3-dichloro) [15327-44-3] having the greatest hypertensive effect in demedullated rats. The results correlated with Es (steric const.) and F (sum of the field effect of the substituents) of the Hansch equation (1971). No such correlation was obod, for hypotensive activity in intact rats. Compds. which had hypotensive activity also had high alpha.—sympathomimetic activity, local anesthetic activity (rabbit cornea), and similar lipophilicity. However, the results were not sufficient to conclude that alpha.—adrenergic mechanisms are involved in the hypotensive effects of clonicine and its analogs.

63346-74. CAPLUS.

Rib BAC (Biological activity or effector, except adverse); BIOL (Biological study) (hypotensive and .alpha.—sympathomimetic activity of)

63346-74 CAPLUS.

H.-Imidazol-2-amine, N-[2,6-bis(1-methylethyl)phenyl]-4,5-dihydro- (9CI) (CA INDEX NAME)

L3 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2002 ACS (Continued)

L3 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1976:455532 CAPLUS
DOCUMENT NUMBER: 25:56532 CAPLUS
85:56532 Clonidine and related analogues. Quantitative correlations
ROUCH Bruno; Leculerc, Gerard; Wermuth, Camille G.; Miesch, Francois; Schwartz, Jean Miesch, Francois; Schwartz, Jean Fac. Pharm., Univ. Louis Pasteur, Strasbourg, Fr. J. Med. Chem. (1976), 19(8), 1049-54 COEM: UMCMAR

DOCUMENT TYPE: LANGUAGE: GI Journal English

A series of 22 derivs. of clonidine-HCl (I) {4205-91-8} were prepd. by the cyclization reaction of ethylenediamine with an S-methylisothiourcnium salt deriv. and the main physicochem. parameters (log P, .DELTA.RM, pKa) detd. Quant. correlations between peripheral .alpha.-mimetic action (pithed rats) and physicochem. parameters pointed out the crit. role of the steric effect of ortho substituents. Attempted quant. correlations between physicochem. parameters and central hypotensive activity were unsuccessful. The mechanism of action of I is discussed.

59465-43-99
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and blood pressure response to)
59465-43-9 CRELUS
Benzenamine, N-2-imidazolidinylidene-2,6-bis(1-methylethyl)-, monohydrochloride (SCI) (CA INDEX NAME)

• HCl

10059456 Page 13 08/21/2002

=> log y COST IN U.S. DOLLARS FULL ESTIMATED COST	SINCE FILE ENTRY 53.06	TOTAL SESSION 193.93
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-7.43	-7.43

STN INTERNATIONAL LOGOFF AT 13:05:10 ON 21 AUG 2002

Welcome to STN International! Enter x:x

LOGINID:ssspta1600rxa

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

```
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                 Web Page URLs for STN Seminar Schedule - N. America
NEWS
                 "Ask CAS" for self-help around the clock
      2 Apr 08
NEWS
                 BEILSTEIN: Reload and Implementation of a New Subject Area
      3 Apr 09
NEWS
                 ZDB will be removed from STN
NEWS 4 Apr 09
NEWS 5 Apr 19 US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
                 Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS 6 Apr 22
NEWS 7 Apr 22 BIOSIS Gene Names now available in TOXCENTER
NEWS 8 Apr 22 Federal Research in Progress (FEDRIP) now available
NEWS 9 Jun 03 New e-mail delivery for search results now available
NEWS 10 Jun 10 MEDLINE Reload
NEWS 11 Jun 10 PCTFULL has been reloaded
NEWS 12 Jul 02 FOREGE no longer contains STANDARDS file segment
 NEWS 13 Jul 22 USAN to be reloaded July 28, 2002;
                 saved answer sets no longer valid
                 Enhanced polymer searching in REGISTRY
 NEWS 14 Jul 29
                 NETFIRST to be removed from STN
 NEWS 15 Jul 30
                 CANCERLIT reload
 NEWS 16 Aug 08
         Aug 08 PHARMAMarketLetter(PHARMAML) - new on STN
 NEWS 17
 NEWS 18 Aug 08 NTIS has been reloaded and enhanced
                 JAPIO to be reloaded August 25, 2002
 NEWS 19 Aug 09
                 Aquatic Toxicity Information Retrieval (AQUIRE)
 NEWS 20 Aug 19
                 now available on STN
                 IFIPAT, IFICDB, and IFIUDB have been reloaded
 NEWS 21 Aug 19
 NEWS 22 Aug 19 The MEDLINE file segment of TOXCENTER has been reloaded
 NEWS EXPRESS February 1 CURRENT WINDOWS VERSION IS V6.0d,
               CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP),
               AND CURRENT DISCOVER FILE IS DATED 05 FEBRUARY 2002
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 NEWS HOURS
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10059456 Page 2 08/21/2002

FILE 'HOME' ENTERED AT 12:12:10 ON 21 AUG 2002

=> fil reg COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 0.21 0.21

FULL ESTIMATED COST

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TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

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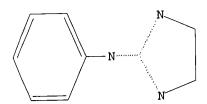
Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details: http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> Uploading 10058456.str

L1 STRUCTURE UPLOADED

=> d L1 HAS NO ANSWERS L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1 SAMPLE SEARCH INITIATED 12:12:36 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 990 TO ITERATE

100.0% PROCESSED 990 ITERATIONS INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED) SEARCH TIME: 00.00.01

50 ANSWERS

10059456 Page 3 08/21/2002

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 17913 TO 21687
PROJECTED ANSWERS: 4943 TO 7017

T.2 50 SEA SSS SAM L1

=> s 11 full FULL SEARCH INITIATED 12:12:40 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 20061 TO ITERATE

100.0% PROCESSED 20061 ITERATIONS 5848 ANSWERS

SEARCH TIME: 00.00.02

L3 5848 SEA SSS FUL L1

=> fil caplus
COST IN U.S. DOLLARS

SINCE FILE TOTAL
ENTRY SESSION
140.28 140.49

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FILE COVERS 1907 - 21 Aug 2002 VOL 137 ISS 8 FILE LAST UPDATED: 20 Aug 2002 (20020820/ED)

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=> s 13 L4 9033 L3

=> fil reg
COST IN U.S. DOLLARS

SINCE FILE TOTAL
ENTRY SESSION
0.40 140.89

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TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

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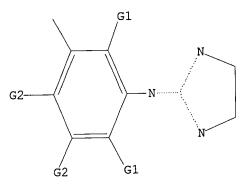
Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details: http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> Uploading 10058456.str

L5 STRUCTURE UPLOADED

=> d L5 HAS NO ANSWERS L5 STR



G1 H, X, O, C G2 C, H, X

Structure attributes must be viewed using STN Express query preparation.

=> s 15 subset=13 full FULL SUBSET SEARCH INITIATED 12:15:46 FILE 'REGISTRY' FULL SUBSET SCREEN SEARCH COMPLETED - 5848 TO ITERATE

100.0% PROCESSED 5848 ITERATIONS SEARCH TIME: 00.00.01

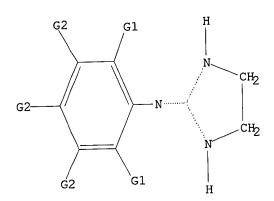
3794 ANSWERS

L6 3794 SEA SUB=L3 SSS FUL L5

Uploading 10058456.str

STRUCTURE UPLOADED L7

=> dL7 HAS NO ANSWERS STR L7



G1 H, X, O, C G2 C, H, X

Structure attributes must be viewed using STN Express query preparation.

=> s 17 subset=15 full L5 MAY NOT BE USED HERE

The L-number must have been created by a search in this file. To see all L-numbers defined in this session, enter DISPLAY HISTORY at an arrow prompt (=>). For additional information on subset searching in this file, enter HELP SUBSET.

ENTER SUBSET L# OR (END):6

6 IS NOT A VALID L#

L-numbers must be in the range L1-L999.

ENTER SUBSET L# OR (END):16

FULL SUBSET SEARCH INITIATED 12:17:26 FILE 'REGISTRY' FULL SUBSET SCREEN SEARCH COMPLETED - 3794 TO ITERATE

3794 ITERATIONS 100.0% PROCESSED

1495 ANSWERS

SEARCH TIME: 00.00.01

1495 SEA SUB=L6 SSS FUL L7 L8

=> fil caplus COST IN U.S. DOLLARS

TOTAL SINCE FILE SESSION ENTRY 210.03 69.14

FULL ESTIMATED COST

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=> s 18 L9 7548 L8

=> fil reg
COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE TOTAL SESSION 1.19 211.22

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TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

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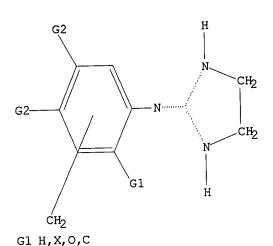
Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details: http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> Uploading 10058456.str

L10 STRUCTURE UPLOADED

=> d L10 HAS NO ANSWERS L10 STF



G2 C,H,X

Structure attributes must be viewed using STN Express query preparation.

=> s l10 subset=18 full FULL SUBSET SEARCH INITIATED 12:20:03 FILE 'REGISTRY' FULL SUBSET SCREEN SEARCH COMPLETED - 1495 TO ITERATE

100.0% PROCESSED 1495 ITERATIONS

218 ANSWERS

SEARCH TIME: 00.00.01

L11 218 SEA SUB=L8 SSS FUL L10

=> fil caplus
COST IN U.S. DOLLARS

SINCE FILE TOTAL SESSION 33.43 244.65

FULL ESTIMATED COST

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FILE COVERS 1907 - 21 Aug 2002 VOL 137 ISS 8 FILE LAST UPDATED: 20 Aug 2002 (20020820/ED)

This file contains CAS Registry Numbers for easy and accurate

10059456 Page 8 08/21/2002

substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

=> s 111 L12 328 L11

=> s l12 and urinary 107190 URINARY L13 2 L12 AND URINARY

=> d ibib abs hitstr 1-2

10059456 Page 9 08/21/2002

L13 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER:
DOCUMENT NUMBER:
1997:318325 CAPLUS
127:1329
The peripheral action of clonidine analog ST-91:
TITLE:
TITLE:
AUTHOR(5):
GUKTOWSKa, Jolanta; Mukaddam-Daher, Suhayla; Tremblay,
Johanne

Gutkowska, Jolantal Mukaduam-Danir, Johanne
Laboratory Cardiovascular Biochemistry, Centre
Recherche Hotel-Dieu Montreal, Universite Montreal,
Montreal, QC, H2W 178, Can.
Journal of Pharmacology and Experimental Therapeutics
(1997), 281(2), 670-676
CODEN: JPETAB: ISSN: 0022-3565
Williams & Wilkins
Journal
Foolish CORPORATE SOURCE:

SOURCE: Journal of Pharmacology and Experimental Therapeutics
Journal of Pharmacology and Experimental Therapeutics
(1997), 281(2), 670-676
CODEN: JPETAB: ISSN: 0022-3565

PUBLISHER: Williams & Wilkins
DOCUMENT TYPE: Journal
LANGUAGE: English

AB It is generally thought that the cardiovascular and renal effects of
clonidine, an alpha-2 adrenergic agonist, are mediated by central
clonidine, an alpha-2 adrenergic agonist, are mediated by an enhanced
caused by central administration of clonidine are mediated by an enhanced
release of atrial natriuretic factor (ANF). Because clonidine has been
shown to have peripheral actions the objective of the present study was to
det. whether ANF is also involved in these actions. Studies were
performed with use of a structural clonidine analog. ST-91, which does
not cross the blood-brain barrier. I.v. injection of various doses (0-250
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Examiner Anderson 703-605-1157

L13 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2002 ACS (Continued)

• HCl

L13 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2002 ACS

(Continued)

10059456 Page 10 08/21/2002

=> FIL STNGUIDE TOTAL SINCE FILE COST IN U.S. DOLLARS SESSION ENTRY 256.24 11.59 FULL ESTIMATED COST SINCE FILE TOTAL DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SESSION ENTRY -1.24-1.24CA SUBSCRIBER PRICE

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AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION. LAST RELOADED: Aug 16, 2002 (20020816/UP).

=> fil reg TOTAL SINCE FILE COST IN U.S. DOLLARS SESSION ENTRY 0.06 256.30 FULL ESTIMATED COST SINCE FILE TOTAL DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) ENTRY SESSION -1.240.00 CA SUBSCRIBER PRICE

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Crossover limits have been increased. See HELP CROSSOVER for details.

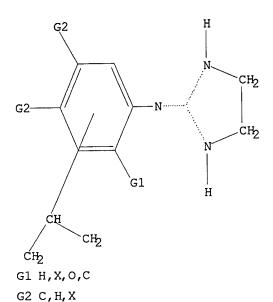
Calculated physical property data is now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details: http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

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L14 STRUCTURE UPLOADED

=> d L14 HAS NO ANSWERS L14 STR

10059456 Page 11 08/21/2002



Structure attributes must be viewed using STN Express query preparation.

=> s 114 subset=18 full FULL SUBSET SEARCH INITIATED 12:23:38 FILE 'REGISTRY' FULL SUBSET SCREEN SEARCH COMPLETED - 1495 TO ITERATE

100.0% PROCESSED 1495 ITERATIONS

4 ANSWERS

SEARCH TIME: 00.00.01

L15 4 SEA SUB=L8 SSS FUL L14

=> d scan

10059456 Page 12 08/21/2002

L15 4 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN IH-Imidazol-2-amine, 4,5-dihydro-N-[2-methyl-6-(1-methylethyl)phenyl](9CI)
MF C13 H19 N3

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L1S 4 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN 1H-Imidazol-2-amine, N-[2,6-bis(1-methylethyl)phenyl]-4,5-dihydro- (9CI)
MF C15 H23 N3

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L15 4 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN Benzenamine, N-2-imidazolidinylidene-2,6-bis(1-methylethyl)-,
monohydrochloride (9CI)
MF C15 H23 N3 . Cl H

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L15 4 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN 1H-Imidazol-2-amine, 4,5-dihydro-N-hydroxy-N-[3-(1-methylethyl)phenyl]-,
monohydrochloride (9CI)
MF C12 H17 N3 O . C1 H

ALL ANSWERS HAVE BEEN SCANNED

10059456 Page 13 08/21/2002

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FILE COVERS 1907 - 21 Aug 2002 VOL 137 ISS 8 FILE LAST UPDATED: 20 Aug 2002 (20020820/ED)

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=> s 115 L16 10 L15

=> d ibib abs hitstr 1-10

10059456 Page 14 08/21/2002

L16 ANSWER 1 OF 10
ACCESSION NUMBER:
DOCUMENT NUMBER:
TITLE:
AUTHOR(S):

CORPORATE SOURCE:

SOURCE:

SOURCE:

DESCRIPTION OF THE SCHOOL AND A SCHOOL

PUBLISHER: DOCUMENT TYPE: Elsevier Science Ltd.

MENT TYPE: Journal SUAGE: English Three-dimensional pharmacophore hypotheses were built from a set of 10 octopamine (OA) agonist 2-(Arylimino) imidazolidines (AIIs), Octopamine (OA) agonist 2-(Arylimino) cotopamine (OA) agonist 2-(Arylimino) cotopamine (OA) agonist activities were detd. using the adenylate cyclase assay in American cockroaches (P. americana). Among the 10 common-featured models generated by program Catalyst/HipHop, a hypothesis including a ring arom. (RA), a pos. ionizable (PI) and three hydrophobic alph. (HpAI) features was considered to be important in evaluating the OA-agonist activity. Active OA agonist 2-6-EE2 AII mapped well onto all the RA, PI and HpAI features of the hypothesis. On the other hand, less active compds were shown to be difficult to achieve the energetically favorable conformation which is found in the active mols. in order to fit the 3-D common-feature pharmacophore models. Taken together, 2.6-EE2-Ph and foramidine structures are important as OA agonists. The present studies on OA agonist demonstrate that a RA, a PI and three HpAI sites located on the mol. seem to be essential for OA-agonist activity.

63346-74-7 159660-33-0
RI: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study) (GSAR for octopamine agonist (arylimino)imidazolidines) 6336-74-7 CAPLUS
IH-Imidazol-2-amine, N-[2,6-bis(1-methylethyl)phenyl]-4,5-dihydro- (9CI) (CA INDEX NAME)

359668-33-0 CAPLUS 1H-Imidazol-2-amine, 4 (9CI) (CA INDEX NAME) 4,5-dihydro-N-[2-methyl-6-(1-methylethyl)phenyl}-

L16 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER:
DOCUMENT NUMBER:
135:222824

IITILE:
135:222824

AUTHOR(S):
14 Hirashima, Akinori, Eiraku, Tomohiko, Watanabe, Yasuyuki, Kuwano, Eiichi; Taniguchi, Eiji; Eto, Morifusa

CORPORATE SOURCE:
Department of Applied Genetics and Pest Management, Faculty of Agriculture, Graduate School, Kyushu University, Fukuoka, 812-851, Japan

SOURCE:
Pest Management Science (2001), 57(8), 713-720
CODEN: PMSCFC; ISSN: 1526-498X

John Wiley & Sons Ltd.
Some octopamine agonists were found to suppress in vitro biosynthesis of the calling pheromone of the Indian meal moth, Plodia interpunctella.
Isolated pheromone-gland prepns. incorporated sodium [14C] acetate at a linear rate for 3h when incubated with the pheromone biosynthesis activating neuropeptide (PBAN). This incorporation was dependent on the dose of PBAN (up to 0.5, mu.H). Thin-layer chromatog, of a pheromone-gland ext. revealed quant. incorporation of radioactivity into a product exhibiting the same mobility as (x, S)-9,12-tetradecadienyl acetate, the main component of the calling pheromone of PBAN (up to 0.5, mu.H). Thin-layer chromatog, of a pheromone-gland ext. revealed quant. incorporation was dependent on the dose of PBAN (up to 0.5, mu.H). Thin-layer chromatog, of a pheromone-gland ext. revealed quant. incorporation of radioactivity into a product exhibiting the same mobility as (x, S)-9,12-tetradecadienyl acetate, the main component of the calling pheromone of PBAN (up to 0.5, mu.H). Thin-layer chromatog, of a pheromone of pheromone of

characterization and differentiation of Octopalantistyle temperature subtypes.

63346-74-79 359668-33-0P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. and pheromonostatic activity of)
63346-74-7 CAPLUS
HI-Imida201-2-amine, N-[2,6-bis(1-methylethyl)phenyl]-4,5-dihydro- (9CI)
(CA INDEX NAME)

359668-33-0 CAPLUS 1H-Imidazol-2-anine, 4,5-dihydro-N-[2-methyl-6-(1-methylethyl)phenyl]-(9C1) (CA INDEX NAME)

L16 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2002 ACS

REFERENCE COUNT:

THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2002 ACS (Continued)

REFERENCE COUNT:

THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

10059456 Page 15 08/21/2002

L16 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2002 ACS ACCESSION MUMBER: 2001:37784 CAPLUS DOCUMENT NUMBER: 134:231513

134:231513
Synthesis, structure, and binding of some
2-imidazolines to rat brain alfa-1 and
alfa-2-adrenergic receptors
Saczewski, F.; Xobierska, E.; Debowski, T.;
Charakchiewa-Minol, S.; Mokrosz, M.; Gdaniec, M.; AUTHOR (S):

CORPORATE SOURCE:

SOURCE:

PUBLISHER: DOCUMENT TYPE: LANGUAGE: OTHER SOURCE(S):

CHOR(S):

Saczewski, F., Kobierska, E., Debowski, T.,
Charakchiewa-Minol, S., Mokrosz, M., Gdaniec, M.,
Nowak, E.
Department of Chemical Technology of Drug and Organic
Chemistry, Medical University of Gdansk, Pol.
Archiv der Pharmazie (Weinheim, Germany) (2000),
333(12), 425-430

CODEN: ARRMAS; ISSN: 0365-6233

LISHER:
UMENT TYPE:
JOURNAI

GUAGE:
ERS SOURCE(S):
CASREACT 134:231513
A meries of novel 2-[[2-aminophenyl]minolimidazolinium salts and
N-benzyl-M-(4,5-dihydro-imidazol-2-yl)-o-methylhydroxylamine hydrochloride
were prepol. and their structure was detd. by IR and NNR spectroscopic data
as vell as X-ray anal. of the imidazolinium azide salt of one of the
compds. Binding evaluation for both .alpha.l- and .alpha.2-adrenergic
receptors in rat brain prepns. of these compds. and previously described
.alpha.-hydroxy-2-aryliminoimidazolines 11a-d, N-(4,5-dihydroimidazol-2-yl)benzimidazoles, and Nn-(4,5-dihydroimidazol-2-yl)benzimidazoles, and Nn-(4,5-dihydroimidazol-2-yl)benzimidazoles, and Nn-(4,5-dihydroimidazol-2-yl)shorizimidazoles, and nn-(4,5-dihydroimidazol-2-yl

330685-57-9
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
[synthesis, structure, and binding of imidazolines to brain .alpha.l-and .alpha.2-adrenergic receptors)
330685-57-9
CAPLUS ΙŤ

JJUU087-3/-9 CARUS
1H-Imidazol-2-amine, 4,5-dihydro-N-hydroxy-N-[3-(1-methylethyl)phenyl]-,
monohydrochloride (9CI) (CA INDEX NAME)

HC1

THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

16 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2002 ACS CCESSION NUMBER: 2000:138409 CAPLUS OCUMENT NUMBER: 132:260196

DOCUMENT NUMBER:

132:260196
Prediction of distribution coefficients from structure. Comparison of calculated and experimental data for various drugs
Tsantil-Kakoulidou, A.; Panderi, I.; Piperaki, S.; Csizmadia, F.; Darvas, F.
Department of Pharmacy, University of Athens, Athens, 157 11, Greece
European Journal of Drug Metabolism and Pharmacokinetics (1999), 24(3), 205-212
CODEN: EJDPD2; ISSN: 0378-7966 AUTHOR (S):

CORPORATE SOURCE:

SOURCE:

Pharmacokinetics (1999), 24(3), 205-212
COODEN: EJOPD2; ISSN: 0378-7966

PUBLISHER: Medecine et Hygiene
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The efficiency of the program PrologD to predict distribution coeffs. (D)
at any pH and pairing ion concn. has been tested using exptl. logD values
for various drugs measured under std. conditions of buffers and ionic
strength. Clondine derivs., fluoroquinolones and .beta.-blockers were
included as particular pharmacol. classes within the testing data set.
Calcns. were performed using the three log? estn. options implemented in
the program. PrologD proved to be very efficient and can be of great
advantage in drug research. Prediction patterns and correlations between
exptl. and calcd. data indicate acceptable results for more than 80% of
the data. In addn. comparable studies using the different options
permitted suggestions for the more suitable log? estn. method in respect
of the particular classes of compds.

IT 63346-74-7
RL: BPN (Biological process); BSU (Biological study, unclassified); PRP
(Process); USES (Uses)
(Comparison of calcd. and exptl. data for various drugs in prediction
of distribution coeffs. from structure)

RN 63346-74-7 CAPIUS
CN 1H-Imidazol-2-amine, N-[2,6-bis(1-methylethyl)phenyl]-4,5-dihydro- (9CI)

REFERENCE COUNT:

THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT 16

L16 ANSWER 4 OF 10
ACCESSION NUMBER:
DOCUMENT NUMBER:
112:330932
TITLE:
Three-dimensional molecular field analyses of octopaminergic agonists and antagonists for the locust neuronal octopaminer receptor class 3
Hirashima, A.; Nagata, T.; Pan, C.; Kuwano, E.; Taniguchi, E.; Eto, M.
Graduate School, Division of Bioresource and Bioenvironmental Sciences, Kyushu University, Fukuoka, Japan
Journal of Molecular Graphics & Modelling (2000), Volume Date 1999, 17(3/4), 198-206
CODEN: JMGMFI; ISSN: 1093-3263
Elsevier Science Inc.

DOCUMENT TYPE:

Journal English LANGUAGE:

The quant. structure-activity relationship (QSAR) of a set of 70 octopaminergic agonists and 20 antagonists against octopamine receptor class 3 (OAR3) in locust nervous tissue was analyzed by mol. field anal. (MFA). MFA of these compds. evaluated effectively the energy between a probe and a mol. model at a series of points defined by a rectangular grid. Contour surfaces for the mol. fields are presented. These results provide useful information in the characterization and differentiation of octopaminergic receptor types and subtypes.

63346-74-7

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)

(three-dimensional mol. field analyses of octopaminergic agonists and antagonists for locust neuronal octopamine receptor class 3)
63346-74-7 CAPLUS

HI-InidazOl-2-amine, N-[2,6-bis(1-methylethyl)phenyl]-4,5-dihydro- (9CI)
(CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 6 OF 10
ACCESSION NUMBER:
DOCUMENT NUMBER:
1997:669819 CAPLUS
127:274156
Neurotransmitter-receptors as targets for new
insecticides
Reeder, T.J. Degen, J.J. Dyczkowski, C.J. Gewacke, M.
Zoologisches Insitut, Universitat Hamburg, Destandary
New Strategies in locust Control (1997), 219-223.
Editor(s): Krall, S.J. Peveling, R.J. Ba Diallo, D.
Birkhaeuser: Basel, Switz.
CODEN: 65EDA4
CODEN: 65EDA4
CODEN: 65EDA4
COTEREDE English

LANGUAGE:

UMENT TYPE: Conference
FUNCE: English
The locust neuronal octopnamine receptor is believed to be an ideal target
for highly specific insecticides. The authors characterized a no. of high
affinity agonists of this receptor subtype. Using structure-activity
relationships, the authors were able to optimize the structure of these
compds. in terms of their affinities. A variety of these compds. show a
high degree of specificity for insect octopanine receptors vs. vertebrate
adrenergic receptors. The high affinity together with the high degree of
specificity makes compds. such as the phenyliminoimidazolidines ideal
starting points for the development of new insecticides.
63346-74-7, NC 20
RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological
strudy); USSS (Uses)
(affinity for locust neuronal octopamine receptor)
63346-74-7 CAPLUS
LH-Imidazol-2-amine, N-[2,6-bis(1-methylethyl)phenyl]-4,5-dihydro- (9CI)
(CA INDEX NAME)

10059456 Page 16 08/21/2002

L16 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2002 ACS (Continued)

L16 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1985:593431 CAPLUS
DOCUMENT NUMBER: 103:193431
TITLE: Phenyliminomidazolidines. Characterization of a class of potent agonists of octopamine-sensitive adenylate cyclase and their use in understanding the pharmacology of octopamine receptors

AUTHOR(S): Nathanson, James A.
CORPORATE SOURCE: Dep. Neurol., Harvard Med. Sch., Boston, MA, 02114, USA
SOURCE: NoPMA3, ISSN: 0026-895X
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Approx. 30 substituted phenyliminoimidazolidines (PII) were examd. for agonist and antagonist effects on the highly enriched and specific octopamine (0)-sensitive adenylate cyclase (AC) present in the firefly ilight organ, as well as on ACs present in other invertebrate and vertebrate atssues. Several derive, were extremely active and some had vertebrate exceeding those of any previously described agonists of O-sensitive AC. Stimulation by the potent PIIs was reversible, onnadditive to that caused by O, and could be antagonized by antagonists such as cyproheptadine, phentolamine, and proprenolol. The inhibitory consts. agreed well with those for inhibiting O stimulation. Certain PII deriva, acted as partial agonists and some as antagonists of O stimulation. Structure-activity relationships revealed, among other things, that short-chain alxyl substitution in the 2- and 6-the positions enhanced activity, as did further substitution to 4-halo, 4-Me, or 4-hydroxy substituents. 4-Amino or M-alkyl substitution decreased activity. Structurally related bencylimidazoline deriva, such as tolazoline and naphazoline were partial agonists, generally less active than the PIIs. Comparison, in 3 invertebrate species, of the effects of the PIIs and 2 other chem. classes of 0 agonists demonstrated clearout differences in species responsiveness. Other comparative studies revealed that the agonist activity of the potent PIIs was appeared for tissues conts, an O-sensitive AC. ACs activated by dopamine or by beta.1- or .elpha.2-adrenergic receptors. These

63346-74-7
RL: BIOL (Biological study)
(octopamine-sensitive adenylate cyclase activation by, in light organ
of firefly, structure in relation to)
63346-74-7 CAPLUS
1H-Imidazol-2-amine, N-{2,6-bis(1-methylethyl)phenyl}-4,5-dihydro- (9CI)
(CA INDEX NAME)

L16 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER:
DOCUMENT NUMBER:
1977: 447931 CAPLUS
87:47931
Structure-activity relations and problems related to the mechanism of action of clonidine
ROUCE, Brunos Leclerc, Gerardy Wermuth,
Camille-Georges; Miesch, Francois; Schwartz, Jean
Fac. Pharm., Univ. Louis-Pasteur, Strasbourg, Fr.
J. Pharmacol. (1977), 8(1), 95-106
CODEN: JNPHAG
JOURNAL TYPE:

DOCUMENT TYPE: LANGUAGE: GI

$$\mathbb{N} = \mathbb{N}$$

All 26 clonidine analogs (I) studied showed peripheral
.alpha.-sympathomimetic activity, with IPS 56 (Ir R = 2,3-dichloro)
[15327-44-3] having the greatest hypertensive effect in demedullated rats.
The results correlated with Es (steric const.) and F (sum of the field
effect of the substituents) of the Hansch equation (1971). No such
correlation was obad, for hypotensive activity in intact rats. Compds.
which had hypotensive activity also had high alpha.-sympathomimetic
activity, local anesthetic activity (rabbit cornea), and similar
lipophilicity. However, the results were not sufficient to conclude that
.alpha.-adrenergic mechanisms are involved in the hypotensive effects of
clonidine and its analogs.
63346-74-7

RL: BAC (Biological activity or effector, except adverse); BIOL

63346-74-7
RL: BAC (Biological activity or effector, except adverse); BIOL (Biological study) (hypotensive and .alpha.-sympathomimetic activity of) 63346-74-7 CAPLUS [H-Imidazol-2-amine, N-[2,6-bis(1-methylethyl)phenyl]-4,5-dihydro- (9CI) (CA INDEX NAME)

10059456 Page 17 08/21/2002

L16 ANSWER 10 OF 10
ACCESSION NUMBER:
DOCUMENT NUMBER:
1976:456532 CAPLUS
85:56532
TITLE:
Clonidine and related analogues. Quantitative correlations
ROUGH, Brunor Leclerc, Gerard; Wermuth, Camille G., Miesch, François; Schwartz, Jean
Fac. Pharm., Univ. Louis Pasteur, Strasbourg, Fr.
DOCUMENT TYPE:
LANGUAGE:
G1
CAPLUS COPYRIGHT 2002 ACS
85:56532
Clonidine and related analogues. Quantitative correlations
ROUGH, Brunor Leclerc, Gerard; Wermuth, Camille G., Miesch, François; Schwartz, Jean
Fac. Pharm., Univ. Louis Pasteur, Strasbourg, Fr.
J. Hed. Chem. (1976), 19(8), 1049-54
COODEN, JMCMAR
JOURNAL
LANGUAGE:
G1

DOCUMENT TYPE: LANGUAGE: GI

A series of 22 derivs, of clonidine-HCl (I) (4205-91-8) were prepd. by the cyclization reaction of ethylenediamine with an S-methylisothiouronium salt deriv, and the main physicochem, parameters (log P., DELTA.RM, pKa) detd. Quant. correlations between peripheral .alpha.mimetic action (pithed rats) and physicochem. parameters pointed out the crit. role of the steric effect of ortho substituents. Attempted quant. correlations between physicochem. parameters and central hypotensive activity were unsuccessful. The mechanism of action of I is discussed.

59465-43-9 (Synthetic preparation); PREP (Preparation) (prepn. and blood pressure response to)
59465-43-9 CAPLUS
Benzenamine, N-2-imidazolidinylidene-2,6-bis(1-methylethyl)-, monohydrochloride (9CI) (CA INDEX NAME) AB

(Continued) L16 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2002 ACS

10059456 Page 18 08/21/2002

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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-7.44

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